* * * * * * * * * * Welcome to STN International * * * * * * * * * *

NEWS 1		Web Page URLs for STN Seminar Schedule - N. America
NEWS 2		"Ask CAS" for self-help around the clock
NEWS 3	May 12	EXTEND option available in structure searching
NEWS 4	May 12	Polymer links for the POLYLINK command completed in REGISTRY
NEWS 5	May 27	New UPM (Update Code Maximum) field for more efficient patent SDIs in CAplus
NEWS 6	May 27	CAplus super roles and document types searchable in REGISTRY
NEWS 7	Jun 28	Additional enzyme-catalyzed reactions added to CASREACT
NEWS 8	Jun 28	ANTE, AQUALINE, BIOENG, CIVILENG, ENVIROENG, MECHENG, and WATER from CSA now available on STN(R)
NEWS 9	Jul 12	BEILSTEIN enhanced with new display and select options, resulting in a closer connection to BABS
NEWS 10	Jul 30	BEILSTEIN on STN workshop to be held August 24 in conjunction with the 228th ACS National Meeting
NEWS 11	AUG 02	IFIPAT/IFIUDB/IFICDB reloaded with new search and display fields
NEWS 12	AUG 02	CAplus and CA patent records enhanced with European and Japan Patent Office Classifications
NEWS 13	AUG 02	STN User Update to be held August 22 in conjunction with the 228th ACS National Meeting
NEWS 14	AUG 02	The Analysis Edition of STN Express with Discover! (Version 7.01 for Windows) now available
NEWS 15	AUG 04	Pricing for the Save Answers for SciFinder Wizard within STN Express with Discover! will change September 1, 2004
NEWS 16	AUG 27	BIOCOMMERCE: Changes and enhancements to content coverage
NEWS 17	AUG 27	BIOTECHABS/BIOTECHDS: Two new display fields added for legal status data from INPADOC
NEWS 18	SEP 01	INPADOC: New family current-awareness alert (SDI) available
NEWS 19	SEP 01	New pricing for the Save Answers for SciFinder Wizard within STN Express with Discover!
NEWS 20	SEP 01	New display format, HITSTR, available in WPIDS/WPINDEX/WPIX
NEWS 21	SEP 14	STN Patent Forum to be held October 13, 2004, in Iselin, NJ

NEWS EXPRESS	JULY 30 CURRENT WINDOWS VERSION IS V7.01, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 11 AUGUST 2004
NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS INTER	General Internet Information
NEWS LOGIN	Welcome Banner and News Items
NEWS PHONE	Direct Dial and Telecommunication Network Access to STN
NEWS WWW	CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

All use of STN is subject to the provisions of the STN Customer agreement. Please note that this agreement limits use to scientific research. Use for software development or design or implementation of commercial gateways or other similar uses is prohibited and may result in loss of user privileges and other penalties.

* * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 10:29:37 ON 16 SEP 2004

=> file reg
COST IN U.S. DOLLARS

	SINCE FILE ENTRY	TOTAL SESSION

h eb c g cg b cg eb

FULL ESTIMATED COST 0.21 0.21

FILE 'REGISTRY' ENTERED AT 10:29:42 ON 16 SEP 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 14 SEP 2004 HIGHEST RN 744786-72-9
DICTIONARY FILE UPDATES: 14 SEP 2004 HIGHEST RN 744786-72-9

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

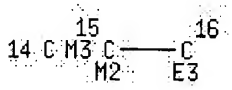
Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

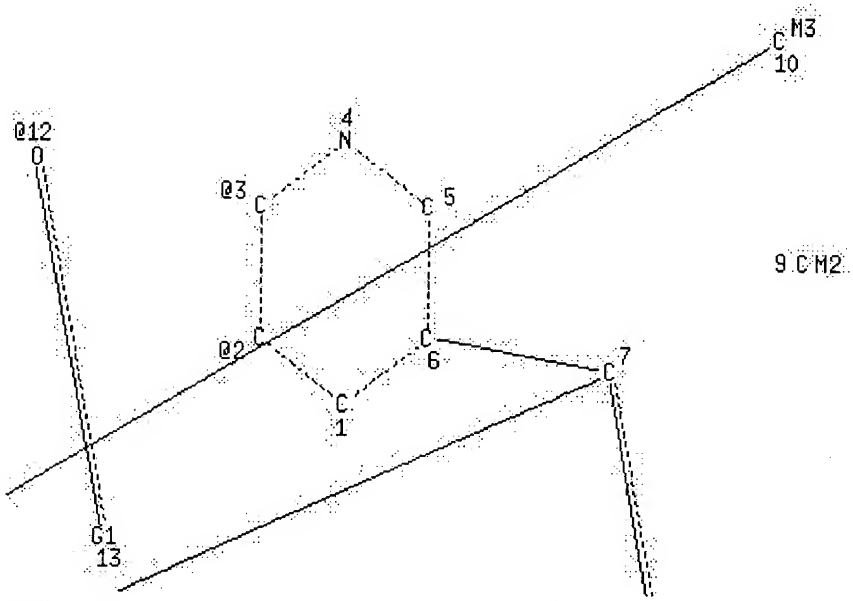
=>
L1 STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1 STR

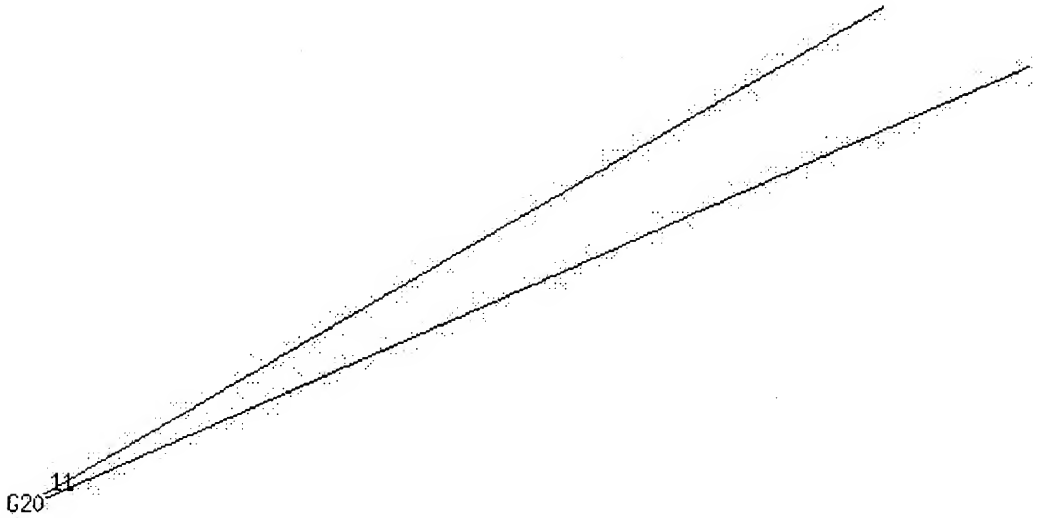


Page 1-A

h eb c g cg b cg eb



Page 1-B



Page 2-A

Page 2-B
VAR G1=14/15
REP G20=(0-2) 9-7 9-10
VPA 12-2/3 S
NODE ATTRIBUTES:
HCOUNT IS M2 AT 8
HCOUNT IS M2 AT 9
HCOUNT IS M3 AT 10
HCOUNT IS M3 AT 14
HCOUNT IS M2 AT 15
HCOUNT IS E3 AT 16
NSPEC IS R AT 1
NSPEC IS R AT 2

h eb c g cg b cg eb

```
NSPEC   IS R      AT   3
NSPEC   IS R      AT   4
NSPEC   IS R      AT   5
NSPEC   IS R      AT   6
NSPEC   IS C      AT   7
NSPEC   IS C      AT   8
NSPEC   IS C      AT   9
NSPEC   IS C      AT  10
NSPEC   IS C      AT  11
NSPEC   IS C      AT  12
NSPEC   IS C      AT  13
DEFAULT MLEVEL IS ATOM
MLEVEL  IS CLASS  AT   7  8  9 10 12 14 15 16
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RSPEC I
NUMBER OF NODES IS  16

STEREO ATTRIBUTES: NONE


=> s l1
SAMPLE SEARCH INITIATED 10:30:17 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -    883 TO ITERATE

100.0% PROCESSED     883 ITERATIONS                                0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:        15878 TO    19442
PROJECTED ANSWERS:               0 TO        0

L2            0 SEA SSS SAM L1

=> s l1 full
THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 155.00 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
FULL SEARCH INITIATED 10:30:23 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -  18068 TO ITERATE

100.0% PROCESSED   18068 ITERATIONS                              15 ANSWERS
SEARCH TIME: 00.00.01

L3           15 SEA SSS FUL L1

=> file hcaplus
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                   155.42     155.63

FILE 'HCAPLUS' ENTERED AT 10:30:26 ON 16 SEP 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)


Copyright of the articles to which records in this database refer is
held by the publishers listed in the PUBLISHER (PB) field (available
```

h eb c g cg b cg eb

FILE COVERS 1907 - 16 Sep 2004 VOL 141 ISS 12
FILE LAST UPDATED: 15 Sep 2004 (20040915/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

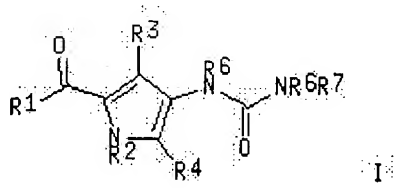
=> s l3
L4 4 L3

=> d l4, ibib abs fhitstr, 1-4
L4 ANSWER 1 OF 4 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2004:515480 HCAPLUS
DOCUMENT NUMBER: 141:71440
TITLE: Preparation of pyrrolylureas as antivirals, particularly for use against cytomegaloviruses.
INVENTOR(S): Zimmermann, Holger; Brueckner, David; Heimbach, Dirk; Henninger, Kerstin; Hewlett, Guy; Rosentreter, Ulrich; Schohe-Loop, Rudolf; Baumeister, Judith; Schmidt, Thorsten; Reefschlaeger, Juergen; Lang, Dieter; Lin, Tse-i; Radtke, Martin
PATENT ASSIGNEE(S): Bayer Healthcare Ag, Germany
SOURCE: PCT Int. Appl., 108 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004052852	A1	20040624	WO 2003-EP13278	20031126
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ				
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 10257358	A1	20040708	DE 2002-10257358	20021209
PRIORITY APPLN. INFO.:			DE 2002-10257358 A	20021209

OTHER SOURCE(S): MARPAT 141:71440
GI

h eb c g cg b cg eb



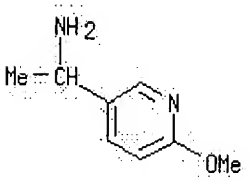
I

AB Title compds. [I; R1 = OR8, NR9R10; R2 = H, (substituted) alkyl, aryl; R3-R6 = H, alkyl; R7 = 3-12 membered (substituted) carbocyclyl; R8, R9 = H, (substituted) alkyl; R10 = H, (substituted) alkyl, cycloalkyl, heterocyclyl, aryl, heteroaryl; NR9R10 = 4-8 membered (substituted) heterocyclyl], were prepd. Thus, Et 4-nitro-1H-pyrrole-2-carboxylate (prepn. given) was stirred with Raney Ni and aq. N2H4 in THF for 30 min; the resulting residue in Me2SO was treated with carbonyldiimidazole and then with (+)-bornylamine followed by stirring for 1 h to give 49% Et 4-[[[[(1R,2S,4R)-1,7,7-trimethylbicyclo[2.2.1]hept-2-□ yl]amino]carbonyl]amino]-1H-pyrrole-2-carboxylate. Tested I showed EC50 = 1.9-86 nM against HCMV in vitro.

IT **579515-25-6**, [1-(6-Methoxypyridin-3-yl)ethyl]amine
RL: RCT (Reactant); RACT (Reactant or reagent)
(prepn. of pyrrolylureas as antivirals)

RN 579515-25-6 HCAPLUS

CN 3-Pyridinemethanamine, 6-methoxy-.alpha.-methyl- (9CI) (CA INDEX NAME)



L4 ANSWER 2 OF 4 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text | Citing References

ACCESSION NUMBER: 2003:633474 HCAPLUS
DOCUMENT NUMBER: 139:180083
TITLE: Preparation of quinoxalinones as M2-acetylcholine agonists for the treatment of cardiovascular diseases
INVENTOR(S): Ergueden, Jens-Kerim; Kolkhof, Peter; Castro-Palomino, Julio; Kuhl, Alexander; Kast, Raimund; Stasch, Johannes-Peter; Tinel, Hanna; Muenter, Klaus; Lustig, Klemens; Pernerstorfer, Josef; Bechem, Martin; Hueser, Joerg
PATENT ASSIGNEE(S): Bayer Aktiengesellschaft, Germany
SOURCE: PCT Int. Appl., 103 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

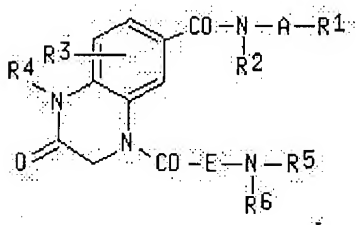
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003066057	A1	20030814	WO 2003-EP782	20030127

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,

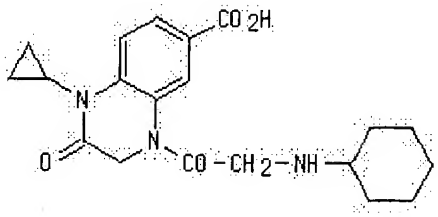
h eb c g cg b cg eb

PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ,
UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD,
RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG,
CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC,
NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW,
ML, MR, NE, SN, TD, TG

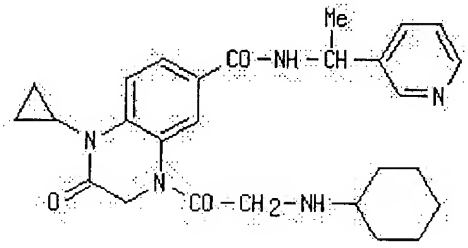
DE 10205219 A1 20030821 DE 2002-10205219 20020208
PRIORITY APPLN. INFO.: DE 2002-10205219 A 20020208
OTHER SOURCE(S): MARPAT 139:180083
GI



I



II



III

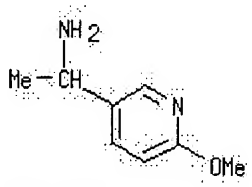
AB Title compds. I [R1 = (un)substituted heteroaryl, e.g., halo, OH, NH2, etc.; A = (CH2)1-6 with OH substitution; E = (CH2)1-6; R2 = H, alkyl, cycloalkyl; R3 = H, halo, alkyl, etc.; R4 = (un)substituted alkyl, cycloalkyl; R5 = H, alkyl, cycloalkyl; R6 = alkyl, heterocyclic, aryl, etc.] and their pharmaceutically acceptable salts were prepd. Of note is the formation of the quinoxalinone ring via the condensation-cyclization of 1,2-benzenediamines and chloroacetyl chloride. For example, coupling of acid II, e.g., prepd. from 4-fluoro-3-nitrobenzoic acid in 6-steps, and α-methyl-3-pyridinemethanamine afforded quinoxalinone III. In human M2-acetylcholine receptor agonists assays, 10-examples of compds. I exhibited IC50 values ranging from 5-1800 nM, e.g., the IC50 value of quinoxalinone III was 37 nM. Compds. I are claimed useful for the treatment of cardiovascular diseases.

IT **579515-25-6**
RL: RCT (Reactant); RACT (Reactant or reagent)
(prepn. of quinoxalinones as M2-acetylcholine agonists for the treatment of cardiovascular diseases)

RN 579515-25-6 HCAPLUS

CN 3-Pyridinemethanamine, 6-methoxy-α-methyl- (9CI) (CA INDEX NAME)

h eb c g cg b cg eb



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

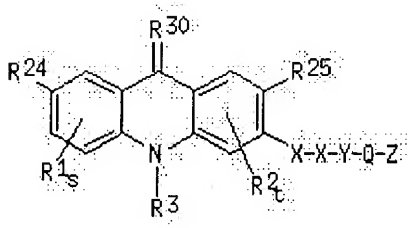
L4 ANSWER 3 OF 4 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text | Hitlist References

ACCESSION NUMBER: 2003:570748 HCAPLUS
DOCUMENT NUMBER: 139:133475
TITLE: Preparation of acridones as inhibitors of inosine monophosphate dehydrogenase (IMPDH) useful against psoriasis, transplant rejection and rheumatoid arthritis
INVENTOR(S): Iwanowicz, Edwin J.; Watterson, Scott H.; Chen, Ping; Dhar, T. G. Murali; Gu, Henry H.; Zhao, Yufen
PATENT ASSIGNEE(S): Bristol-Myers Squibb Company, USA
SOURCE: PCT Int. Appl., 314 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003059269	A2	20030724	WO 2002-US41530	20021220
WO 2003059269	A3	20031231		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 2003181497	A1	20030925	US 2002-325009	20021220
US 2004053955	A1	20040318	US 2002-324306	20021220
PRIORITY APPLN. INFO.:			US 2001-343234P	P 20011221

OTHER SOURCE(S): MARPAT 139:133475
GI



I

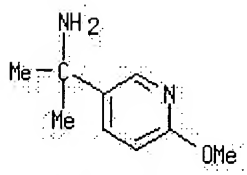
h eb c g cg b cg eb

AB Acridones (shown as I; variables defined below; e.g. N-[1-[4-[2-(dimethylamino)ethoxy]phenyl]-1-methylethyl]-9,10-dihydro-9-oxo-3-acridinecarboxamide) and their inhibition of inosine monophosphate dehydrogenase are claimed. For I: R3 = H, OH and NH2; R30 = O and S; W is -C(O)-, -S(O)-, or -S(O)2-; or W may be -CH2- if X is -C(O)-; X = -CH2-, -N(R4)-, and -O-, except that when W is -CH2-, X is -C(O)-; Y is a bond or -C(R40)(R45)-; Q is a linker; Z is (un)substituted alkyl, alkenyl, alkynyl, cycloalkyl, aryl, heteroaryl, or heterocyclyl; addnl. details are given in the claims. The authors state that I are capable of inhibiting IMPDH at a measurable level, but no values are given. Although the methods of prepn. are not claimed, many example prepns. and characterization data for >400 examples of I are included.

IT **566161-84-0**, [1-(6-Methoxypyridin-3-yl)-1-methylethyl]amine
RL: RCT (Reactant); RACT (Reactant or reagent)
(prepn. of acridones as inhibitors of inosine monophosphate dehydrogenase useful against psoriasis, transplant rejection and rheumatoid arthritis)

RN 566161-84-0 HCAPLUS

CN 3-Pyridinemethanamine, 6-methoxy-α,α-dimethyl- (9CI) (CA INDEX NAME)



L4 ANSWER 4 OF 4 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text | More Like This | References

ACCESSION NUMBER: 2000:628131 HCAPLUS
DOCUMENT NUMBER: 133:222747
TITLE: Preparation of piperazine derivatives as antitumor agents
INVENTOR(S): Cho, Eui-Hwan; Chung, Sun-Gan; Lee, Sun-Hwan; Kwon, Ho-Seok; Kang, Dong-Wook; Joo, Jeong-Ho; Lee, Young-Hee
PATENT ASSIGNEE(S): Samjin Pharmaceutical Co., Ltd., S. Korea
SOURCE: PCT Int. Appl., 123 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000052001	A1	20000908	WO 2000-KR164	20000303
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
KR 2000059356	A	20001005	KR 1999-6890	19990303

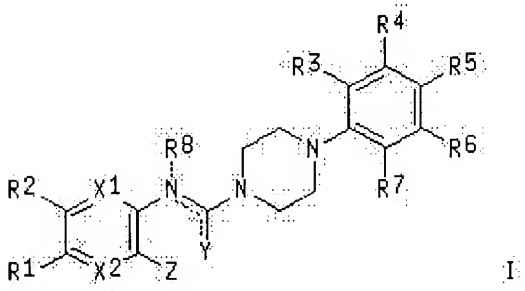
h eb c g cg b cg eb

KR 2000059570	A	20001005	KR 1999-7266	19990305
KR 2000060059	A	20001016	KR 1999-8088	19990311
KR 2000061873	A	20001025	KR 1999-11254	19990331
CA 2330942	AA	20000908	CA 2000-2330942	20000303
EP 1075469	A1	20010214	EP 2000-908085	20000303
EP 1075469	B1	20040526		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
JP 2002538153	T2	20021112	JP 2000-602228	20000303
JP 3422486	B2	20030630		
AU 763030	B2	20030710	AU 2000-29461	20000303
EP 1424072	A1	20040602	EP 2003-78792	20000303
R: CH, DE, FR, GB, IT, LI, SE				
US 2003092910	A1	20030515	US 2002-105936	20020326
US 6683184	B2	20040127		

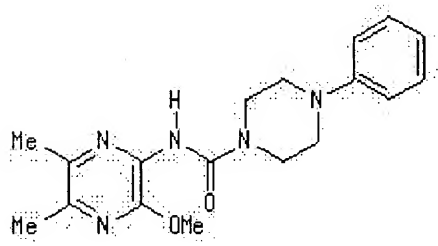
PRIORITY APPLN. INFO.:	KR 1999-6890	A 19990303
	KR 1999-7266	A 19990305
	KR 1999-8088	A 19990311
	KR 1999-11254	A 19990331
	EP 2000-908085	A3 20000303
	WO 2000-KR164	W 20000303
	US 2001-674686	B1 20010530

OTHER SOURCE(S): MARPAT 133:222747

GI



I



II

AB The title compds. [I; R1, R2 = H, alkyl, alkylcarboxyl, etc.; R1 and R2 are fused to form C3-4 unsatd. ring; R3-R7 = H, halo, OH, etc.; R8 = alkyl; Y = O, S, (un)substituted NH2, thioalkyl; Z = alkoxy, alkyl, alkylamino, thioalkoxy; X1, X2 = C, N] which have strong antitumor activities and very low toxicity, were prepd. Thus, treatment of 3-amino-5,6-dimethyl-2-methoxypyrazine with Ph chloroformate in CH2Cl2 followed by reacting the resulting carbamate with 1-phenylpiperazine in the presence of DBU in THF afforded the piperazine II. Antitumor activities (data given) of the compds. I were tested in vitro against 5 kinds of human tumor cell lines and a leukemia tumor cell line.

IT **291511-61-0P**

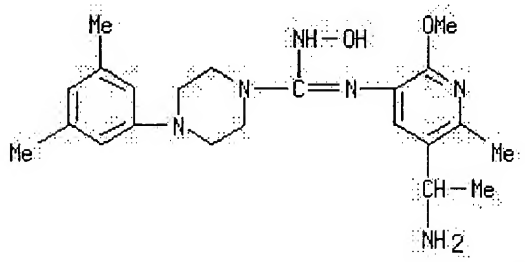
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use);

h eb c g cg b cg eb

BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of piperazine derivs. as antitumor agents)

RN 291511-61-0 HCAPLUS

CN 1-Piperazinecarboximidamide, N-[5-(1-aminoethyl)-2-methoxy-6-methyl-3-pyridinyl]-4-(3,5-dimethylphenyl)-N'-hydroxy- (9CI) (CA INDEX NAME)

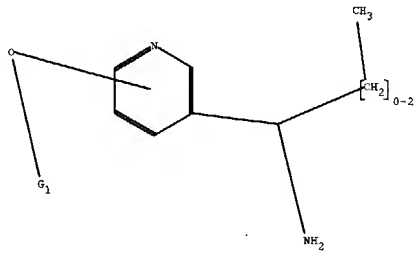


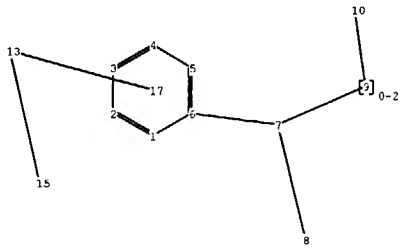
REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=>

h eb c g cg b cg eb

C:\stnweb\queries\4.str





chain nodes :
7 8 9 10 13 15
ring nodes :
1 2 3 4 5 6
chain bonds :
6-7 7-8 7-9 9-10 13-15
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6
exact/norm bonds :
7-8 13-15
exact bonds :
6-7 7-9 9-10
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6
isolated ring systems :
containing 1 :

G1:CH3,Et

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:CLASS
13:CLASS 15:CLASS 17:CLASS

* * * * * * * * * * Welcome to STN International * * * * * * * * * *

NEWS 1		Web Page URLs for STN Seminar Schedule - N. America
NEWS 2		"Ask CAS" for self-help around the clock
NEWS 3	May 12	EXTEND option available in structure searching
NEWS 4	May 12	Polymer links for the POLYLINK command completed in REGISTRY
NEWS 5	May 27	New UPM (Update Code Maximum) field for more efficient patent SDIs in CAplus
NEWS 6	May 27	CAplus super roles and document types searchable in REGISTRY
NEWS 7	Jun 28	Additional enzyme-catalyzed reactions added to CASREACT
NEWS 8	Jun 28	ANTE, AQUALINE, BIOENG, CIVILENG, ENVIROENG, MECHENG, and WATER from CSA now available on STN(R)
NEWS 9	Jul 12	BEILSTEIN enhanced with new display and select options, resulting in a closer connection to BABS
NEWS 10	Jul 30	BEILSTEIN on STN workshop to be held August 24 in conjunction with the 228th ACS National Meeting
NEWS 11	AUG 02	IFIPAT/IFIUDB/IFICDB reloaded with new search and display fields
NEWS 12	AUG 02	CAplus and CA patent records enhanced with European and Japan Patent Office Classifications
NEWS 13	AUG 02	STN User Update to be held August 22 in conjunction with the 228th ACS National Meeting
NEWS 14	AUG 02	The Analysis Edition of STN Express with Discover! (Version 7.01 for Windows) now available
NEWS 15	AUG 04	Pricing for the Save Answers for SciFinder Wizard within STN Express with Discover! will change September 1, 2004
NEWS 16	AUG 27	BIOCOMMERCE: Changes and enhancements to content coverage
NEWS 17	AUG 27	BIOTECHABS/BIOTECHDS: Two new display fields added for legal status data from INPADOC
NEWS 18	SEP 01	INPADOC: New family current-awareness alert (SDI) available
NEWS 19	SEP 01	New pricing for the Save Answers for SciFinder Wizard within STN Express with Discover!
NEWS 20	SEP 01	New display format, HITSTR, available in WPIDS/WPINDEX/WPIX
NEWS 21	SEP 14	STN Patent Forum to be held October 13, 2004, in Iselin, NJ

NEWS EXPRESS	JULY 30 CURRENT WINDOWS VERSION IS V7.01, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 11 AUGUST 2004
NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS INTER	General Internet Information
NEWS LOGIN	Welcome Banner and News Items
NEWS PHONE	Direct Dial and Telecommunication Network Access to STN
NEWS WWW	CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

All use of STN is subject to the provisions of the STN Customer agreement. Please note that this agreement limits use to scientific research. Use for software development or design or implementation of commercial gateways or other similar uses is prohibited and may result in loss of user privileges and other penalties.

* * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 10:14:49 ON 16 SEP 2004

=> file xeq
COST IN U.S. DOLLARS SINCE FILE ENTRY TOTAL SESSION

h eb c g cg b cg eb

FULL ESTIMATED COST 0.21 0.21

FILE 'REGISTRY' ENTERED AT 10:14:53 ON 16 SEP 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 14 SEP 2004 HIGHEST RN 744786-72-9
DICTIONARY FILE UPDATES: 14 SEP 2004 HIGHEST RN 744786-72-9

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

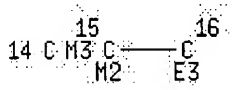
Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

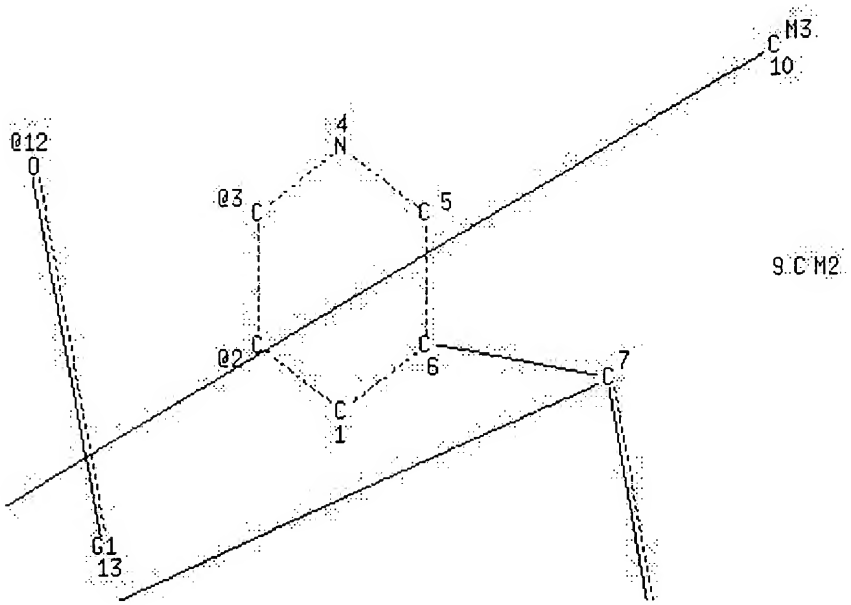
Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=>
L1 STRUCTURE UPLOADED

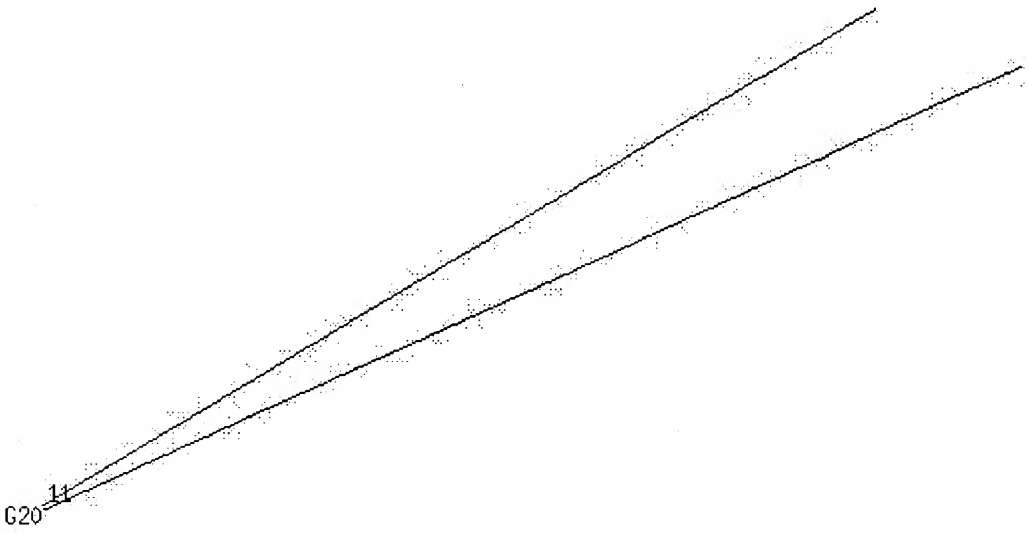
=> d l1
L1 HAS NO ANSWERS
L1 STR



h eb c g cg b cg eb



Page 1-B



Page 2-A

Page 2-B
VAR G1=14/15
REP G20=(0-2) 9-7 9-10
VPA 12-2/3 S
NODE ATTRIBUTES:
HCOUNT IS M2 AT 8
HCOUNT IS M2 AT 9
HCOUNT IS M3 AT 10
HCOUNT IS M3 AT 14
HCOUNT IS M2 AT 15
HCOUNT IS E3 AT 16
NSPEC IS R AT 1
NSPEC IS R AT 2

h eb c g cg b cg eb

```
NSPEC   IS R      AT   3
NSPEC   IS R      AT   4
NSPEC   IS R      AT   5
NSPEC   IS R      AT   6
NSPEC   IS C      AT   7
NSPEC   IS C      AT   8
NSPEC   IS C      AT   9
NSPEC   IS C      AT  10
NSPEC   IS C      AT  11
NSPEC   IS C      AT  12
NSPEC   IS C      AT  13
DEFAULT MLEVEL IS ATOM
MLEVEL  IS CLASS  AT   7  8  9 10 12 14 15 16
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RSPEC I
NUMBER OF NODES IS  16

STEREO ATTRIBUTES: NONE


=> s l1
SAMPLE SEARCH INITIATED 10:17:12 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -    883 TO ITERATE

100.0% PROCESSED     883 ITERATIONS                                0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:        15878 TO    19442
PROJECTED ANSWERS:               0 TO        0

L2            0 SEA SSS SAM L1

=> s l1 full
THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 155.00 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
FULL SEARCH INITIATED 10:17:17 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -  18068 TO ITERATE

100.0% PROCESSED   18068 ITERATIONS                              15 ANSWERS
SEARCH TIME: 00.00.01

L3           15 SEA SSS FUL L1

=> file hcaplus
COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                   ENTRY    SESSION
FULL ESTIMATED COST                               156.68     156.89

FILE 'HCAPLUS' ENTERED AT 10:17:19 ON 16 SEP 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)


Copyright of the articles to which records in this database refer is
held by the publishers listed in the PUBLISHER (PB) field (available


h        eb c     g cg  b     cg                                    eb
```

for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications. The CA Lexicon is the copyrighted intellectual property of the the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

FILE COVERS 1907 - 16 Sep 2004 VOL 141 ISS 12
FILE LAST UPDATED: 15 Sep 2004 (20040915/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l3
L4 4 L3

=> s l4 and brendel, j?/au
95 BRENDEL, J?/AU
L5 0 L4 AND BRENDEL, J?/AU

=> s l4 and goegelein, h?/au
64 GOEGELEIN, H?/AU
L6 0 L4 AND GOEGELEIN, H?/AU

=> s l4 and wirth, k?/au
204 WIRTH, K?/AU
L7 0 L4 AND WIRTH, K?/AU

=> s l4 and kuezel, g?/au
0 KUEZEL, G?/AU
L8 0 L4 AND KUEZEL, G?/AU

=> d l4, ibib abs, 1-4

L4 ANSWER 1 OF 4 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text | Patentes

ACCESSION NUMBER: 2004:515480 HCAPLUS
DOCUMENT NUMBER: 141:71440
TITLE: Preparation of pyrrolylureas as antivirals, particularly for use against cytomegaloviruses.
INVENTOR(S): Zimmermann, Holger; Brueckner, David; Heimbach, Dirk; Henninger, Kerstin; Hewlett, Guy; Rosentreter, Ulrich; Schohe-Loop, Rudolf; Baumeister, Judith; Schmidt, Thorsten; Reefschlaeger, Juergen; Lang, Dieter; Lin, Tse-i; Radtke, Martin
PATENT ASSIGNEE(S): Bayer Healthcare Ag, Germany
SOURCE: PCT Int. Appl., 108 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004052852	A1	20040624	WO 2003-EP13278	20031126

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,

h eb c g cg b cg eb

CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ

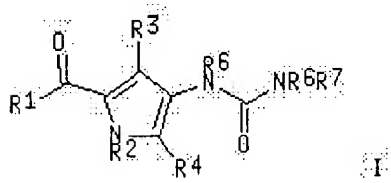
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

DE 10257358 A1 20040708 DE 2002-10257358 20021209

PRIORITY APPLN. INFO.: DE 2002-10257358 A 20021209

OTHER SOURCE(S): MARPAT 141:71440

GI



I

AB Title compds. [I; R1 = OR8, NR9R10; R2 = H, (substituted) alkyl, aryl; R3-R6 = H, alkyl; R7 = 3-12 membered (substituted) carbocyclyl; R8, R9 = H, (substituted) alkyl; R10 = H, (substituted) alkyl, cycloalkyl, heterocyclyl, aryl, heteroaryl; NR9R10 = 4-8 membered (substituted) heterocyclyl], were prepd. Thus, Et 4-nitro-1H-pyrrole-2-carboxylate (prepn. given) was stirred with Raney Ni and aq. N2H4 in THF for 30 min; the resulting residue in Me2SO was treated with carbonyldiimidazole and then with (+)-bornylamine followed by stirring for 1 h to give 49% Et 4-[[[[(1R,2S,4R)-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl]amino]carbonyl]amino]-1H-pyrrole-2-carboxylate. Tested I showed EC50 = 1.9-86 nM against HCMV in vitro.

L4 ANSWER 2 OF 4 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text | Citing References

ACCESSION NUMBER: 2003:633474 HCAPLUS

DOCUMENT NUMBER: 139:180083

TITLE: Preparation of quinoxalinones as M2-acetylcholine agonists for the treatment of cardiovascular diseases

INVENTOR(S): Ergueden, Jens-Kerim; Kolkhof, Peter; Castro-Palomino, Julio; Kuhl, Alexander; Kast, Raimund; Stasch, Johannes-Peter; Tinel, Hanna; Muenter, Klaus; Lustig, Klemens; Pernerstorfer, Josef; Bechem, Martin; Hueser, Joerg

PATENT ASSIGNEE(S): Bayer Aktiengesellschaft, Germany

SOURCE: PCT Int. Appl., 103 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

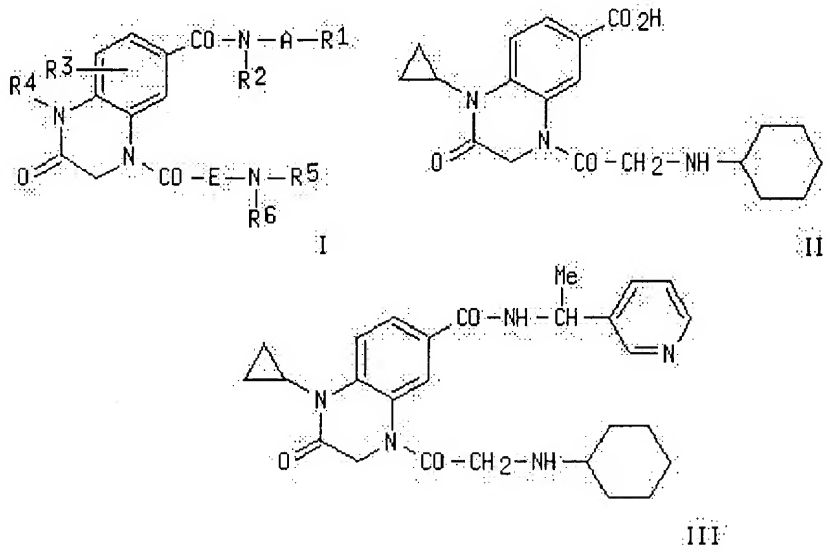
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003066057	A1	20030814	WO 2003-EP782	20030127

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,

h eb c g cg b cg eb

GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ,
UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD,
RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG,
CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC,
NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW,
ML, MR, NE, SN, TD, TG

DE 10205219 A1 20030821 DE 2002-10205219 20020208
PRIORITY APPLN. INFO.: DE 2002-10205219 A 20020208
OTHER SOURCE(S): MARPAT 139:180083
GI



AB Title compds. I [R1 = (un)substituted heteroaryl, e.g., halo, OH, NH2, etc.; A = (CH2)1-6 with OH substitution; E = (CH2)1-6; R2 = H, alkyl, cycloalkyl; R3 = H, halo, alkyl, etc.; R4 = (un)substituted alkyl, cycloalkyl; R5 = H, alkyl, cycloalkyl; R6 = alkyl, heterocyclic, aryl, etc.] and their pharmaceutically acceptable salts were prepd. Of note is the formation of the quinoxalinone ring via the condensation-cyclization of 1,2-benzenediamines and chloroacetyl chloride. For example, coupling of acid II, e.g., prepd. from 4-fluoro-3-nitrobenzoic acid in 6-steps, and α-methyl-3-pyridinemethanamine afforded quinoxalinone III. In human M2-acetylcholine receptor agonists assays, 10-examples of compds. I exhibited IC50 values ranging from 5-1800 nM, e.g., the IC50 value of quinoxalinone III was 37 nM. Compds. I are claimed useful for the treatment of cardiovascular diseases.

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 4 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text | Citing References

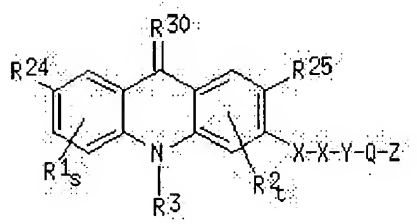
ACCESSION NUMBER: 2003:570748 HCAPLUS
DOCUMENT NUMBER: 139:133475
TITLE: Preparation of acridones as inhibitors of inosine monophosphate dehydrogenase (IMPDH) useful against psoriasis, transplant rejection and rheumatoid arthritis

h eb c g cg b cg eb

INVENTOR(S): Iwanowicz, Edwin J.; Watterson, Scott H.; Chen, Ping; Dhar, T. G. Murali; Gu, Henry H.; Zhao, Yufen
PATENT ASSIGNEE(S): Bristol-Myers Squibb Company, USA
SOURCE: PCT Int. Appl., 314 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003059269	A2	20030724	WO 2002-US41530	20021220
WO 2003059269	A3	20031231		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 2003181497	A1	20030925	US 2002-325009	20021220
US 2004053955	A1	20040318	US 2002-324306	20021220
PRIORITY APPLN. INFO.:			US 2001-343234P P	20011221

OTHER SOURCE(S): MARPAT 139:133475
GI



I

AB Acridones (shown as I; variables defined below; e.g. N-[1-[4-[2-(dimethylamino)ethoxy]phenyl]-1-methylethyl]-9,10-dihydro-9-oxo-3-acridinecarboxamide) and their inhibition of inosine monophosphate dehydrogenase are claimed. For I: R3 = H, OH and NH2; R30 = O and S; W is -C(O)-, -S(O)-, or -S(O)2-; or W may be -CH2- if X is -C(O)-; X = -CH2-, -N(R4)-, and -O-, except that when W is -CH2-, X is -C(O)-; Y is a bond or -C(R40)(R45)-; Q is a linker; Z is (un)substituted alkyl, alkenyl, alkynyl, cycloalkyl, aryl, heteroaryl, or heterocyclyl; addnl. details are given in the claims. The authors state that I are capable of inhibiting IMPDH at a measurable level, but no values are given. Although the methods of prepn. are not claimed, many example prepns. and characterization data for >400 examples of I are included.

L4 ANSWER 4 OF 4 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text | Citing References

ACCESSION NUMBER: 2000:628131 HCAPLUS
DOCUMENT NUMBER: 133:222747

h eb c g cg b cg eb

TITLE: Preparation of piperazine derivatives as antitumor agents

INVENTOR(S): Cho, Eui-Hwan; Chung, Sun-Gan; Lee, Sun-Hwan; Kwon, Ho-Seok; Kang, Dong-Wook; Joo, Jeong-Ho; Lee, Young-Hee

PATENT ASSIGNEE(S): Samjin Pharmaceutical Co., Ltd., S. Korea

SOURCE: PCT Int. Appl., 123 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000052001	A1	20000908	WO 2000-KR164	20000303
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
KR 2000059356	A	20001005	KR 1999-6890	19990303
KR 2000059570	A	20001005	KR 1999-7266	19990305
KR 2000060059	A	20001016	KR 1999-8088	19990311
KR 2000061873	A	20001025	KR 1999-11254	19990331
CA 2330942	AA	20000908	CA 2000-2330942	20000303
EP 1075469	A1	20010214	EP 2000-908085	20000303
EP 1075469	B1	20040526		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
JP 2002538153	T2	20021112	JP 2000-602228	20000303
JP 3422486	B2	20030630		
AU 763030	B2	20030710	AU 2000-29461	20000303
EP 1424072	A1	20040602	EP 2003-78792	20000303
R: CH, DE, FR, GB, IT, LI, SE				
US 2003092910	A1	20030515	US 2002-105936	20020326
US 6683184	B2	20040127		

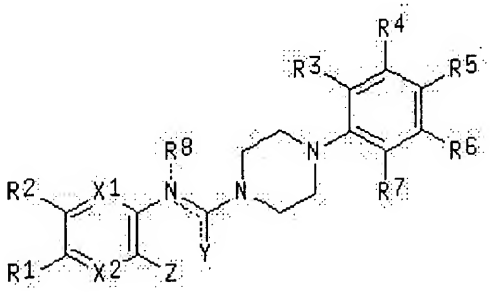
PRIORITY APPLN. INFO.:

KR 1999-6890	A	19990303
KR 1999-7266	A	19990305
KR 1999-8088	A	19990311
KR 1999-11254	A	19990331
EP 2000-908085	A3	20000303
WO 2000-KR164	W	20000303
US 2001-674686	B1	20010530

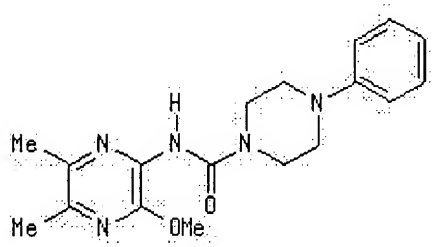
OTHER SOURCE(S): MARPAT 133:222747

GI

h eb c g cg b cg eb



I



II

AB The title compds. [I; R1, R2 = H, alkyl, alkylcarboxyl, etc.; R1 and R2 are fused to form C3-4 unsatd. ring; R3-R7 = H, halo, OH, etc.; R8 = alkyl; Y = O, S, (un)substituted NH2, thioalkyl; Z = alkoxy, alkyl, alkylamino, thioalkoxy; X1, X2 = C, N] which have strong antitumor activities and very low toxicity, were prepd. Thus, treatment of 3-amino-5,6-dimethyl-2-methoxypyrazine with Ph chloroformate in CH2Cl2 followed by reacting the resulting carbamate with 1-phenylpiperazine in the presence of DBU in THF afforded the piperazine II. Antitumor activities (data given) of the compds. I were tested in vitro against 5 kinds of human tumor cell lines and a leukemia tumor cell line.

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> file caold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	36.16	193.05

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-2.80	-2.80

FILE 'CAOLD' ENTERED AT 10:23:59 ON 16 SEP 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907-1966
FILE LAST UPDATED: 01 May 1997 (19970501/UP)

This file contains CAS Registry Numbers for easy and accurate substance identification. Title keywords, authors, patent assignees, and patent information, e.g., patent numbers, are now searchable from 1907-1966. TIFF images of CA abstracts printed between 1907-1966 are available in the PAGE display formats.

This file supports REG1stRY for direct browsing and searching of

h eb c g cg b cg eb

all substance data from the REGISTRY file. Enter HELP FIRST for more information.

```
=> d his

     (FILE 'HOME' ENTERED AT 10:14:49 ON 16 SEP 2004)

     FILE 'REGISTRY' ENTERED AT 10:14:53 ON 16 SEP 2004
L1             STRUCTURE UPLOADED
L2               0 S L1
L3              15 S L1 FULL

     FILE 'HCAPLUS' ENTERED AT 10:17:19 ON 16 SEP 2004
L4               4 S L3
L5               0 S L4 AND BRENDEL, J?/AU
L6               0 S L4 AND GOEGELEIN, H?/AU
L7               0 S L4 AND WIRTH, K?/AU
L8               0 S L4 AND KUEZEL, G?/AU

     FILE 'CAOLD' ENTERED AT 10:23:59 ON 16 SEP 2004

=> s l3
L9               0 L3

=>
```

h eb c g cg b cg eb